	Application No.	Applicant(s)
Notice of Allowability	10/533,067	BACKS ET AL.
	Examiner	Art Unit
	Kevin Wyatt	2878
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1.  This communication is responsive to		
2. The allowed claim(s) is/are <u>14-26</u> .		
<ul> <li>3.   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)</li></ul>		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5.  Notice of Informa	al Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🛛 Interview Summa	• •
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 0405	7. Examiner's Ame	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's State 9. ☐ Other	Georgia Epps Supervisory Patent Examiner Technology Center 2800

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gerald H. Kiel on 09/28/2007.

In claim 14, line 4, change "the resulting" to --a resulting--.

In claim 14, line 5, change "the phase position" to --a phase position--.

## Allowable Subject Matter

- 2. Claims 14-26 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claim 14, the prior art fails to disclose or make obvious a method for improving the depth discrimination of optical systems comprising, in addition to the other recited steps of the claim, "c) creating displacement of a phase position of the periodic structure; e) calculating the registered brightness distributions to obtain an object brightness distribution; f) registering the displacements of the phase positions from step c); and i) carrying out calculation taking into account the results obtained in step f)."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2878

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Akselrod (Publication No. U.S. 2003/0235136 A1) discloses an optical single-bit recording and fluorescent readout utilizing aluminum oxide single crystals.

Denk (U.S. Patent No. 5,034,613) discloses two-photon laser microscopy.

Kumacheva (Publication No. U.S. 2001/0043495 A1) discloses three dimensional optical memory storage.

Gerstner (Publication No. U.S. 2003/0086067 A1) an assembly for increasing the depth discrimination of an optical imaging system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Wyatt whose telephone number is (571)-272-5974. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571)-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

K.W.

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